OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/825,147**

DATE: 09/10/2001
TIME: 11:21:17

Input Set : **A:\LEX-0160-USA SEQLIST.txt**
Output Set: **N:\CRF3\09102001\I825147.raw**

ENTERED

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 4 <110> APPLICANT: Hu, Yi
 5        Kieke, James Alvin
 6        Turner, C. Alexander Jr.
 7        Nehls, Michael C.
 8        Friedrich, Glenn
 9        Zambrowicz, Brian
10        Sands, Arthur T.
12 <120> TITLE OF INVENTION: Novel Human Ion Channel Protein and
13        Polynucleotides Encoding the Same
16 <130> FILE REFERENCE: LEX-0160-USA
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C--> 18 **<141> CURRENT FILING DATE: 2001-04-03**
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27 <212> TYPE: DNA
28 <213> ORGANISM: homo sapiens
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80 <211> LENGTH: 923
81 <212> TYPE: PRT
82 <213> ORGANISM: homo sapiens

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89 Gly Ser Gly Met Lys Asp Val Glu Ser Gly Arg Gly Arg Val Leu Leu
90          35                  40                  45
91 Asn Ser Ala Ala Ala Arg Gly Asp Gly Leu Leu Leu Leu Gly Thr Arg
92      50                  55                  60
93 Ala Ala Thr Leu Gly Gly Gly Gly Gly Gly Leu Arg Glu Ser Arg Arg
94 65                  70                  75                  80
95 Gly Lys Gln Gly Ala Arg Met Ser Leu Leu Gly Lys Pro Leu Ser Tyr
96                  85                  90                  95
97 Thr Ser Ser Gln Ser Cys Arg Arg Asn Val Lys Tyr Arg Arg Val Gln
98              100                 105                 110
99 Asn Tyr Leu Tyr Asn Val Leu Glu Arg Pro Arg Gly Trp Ala Phe Ile
100             115                 120                 125
101 Tyr His Ala Phe Val Phe Leu Leu Val Phe Gly Cys Leu Ile Leu Ser
102         130                 135                 140
103 Val Phe Ser Thr Ile Pro Glu His Thr Lys Leu Ala Ser Ser Cys Leu
104 145                 150                 155                 160
105 Leu Ile Leu Glu Phe Val Met Ile Val Val Phe Gly Leu Glu Phe Ile
106                 165                 170                 175
107 Ile Arg Ile Trp Ser Ala Gly Cys Cys Cys Arg Tyr Arg Gly Trp Gln
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112      210          215          220
113 Ile Phe Ala Thr Ser Ala Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu
114 225          230          235          240
115 Arg Met Val Arg Met Asp Arg Arg Gly Gly Thr Trp Lys Leu Leu Gly
116          245          250          255
117 Ser Val Val Tyr Ala His Ser Lys Glu Leu Ile Thr Ala Trp Tyr Ile
118          260          265          270
119 Gly Phe Leu Val Leu Ile Phe Ser Ser Phe Leu Val Tyr Leu Val Glu
120      275          280          285
121 Lys Asp Ala Asn Lys Glu Phe Ser Thr Tyr Ala Asp Ala Leu Trp Trp
122      290          295          300
123 Gly Thr Ile Thr Leu Thr Thr Ile Gly Tyr Gly Asp Lys Thr Pro Leu
124 305          310          315          320
125 Thr Trp Leu Gly Arg Leu Leu Ser Ala Gly Phe Ala Leu Leu Gly Ile
126          325          330          335
127 Ser Phe Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe Ala Leu
128          340          345          350
129 Lys Val Gln Glu Gln His Arg Gln Lys His Phe Glu Lys Arg Arg Asn
130      355          360          365
131 Pro Ala Ala Asn Leu Ile Gln Cys Val Trp Arg Ser Tyr Ala Ala Asp
132      370          375          380
133 Glu Lys Ser Val Ser Ile Ala Thr Trp Lys Pro His Leu Lys Ala Leu
134 385          390          395          400
135 His Thr Cys Ser Pro Thr Asn Gln Lys Leu Ser Phe Lys Glu Arg Val
136          405          410          415
137 Arg Met Ala Ser Pro Arg Gly Gln Ser Ile Lys Ser Arg Gln Ala Ser
138      420          425          430
139 Val Gly Asp Arg Arg Ser Pro Ser Thr Asp Ile Thr Ala Glu Gly Ser
140      435          440          445
141 Pro Thr Lys Val Gln Lys Ser Trp Ser Phe Asn Asp Arg Thr Arg Phe
142 450          455          460
143 Arg Pro Ser Leu Arg Leu Lys Ser Ser Gln Pro Lys Pro Val Ile Asp
144 465          470          475          480
145 Ala Asp Thr Ala Leu Gly Thr Asp Asp Val Tyr Asp Glu Lys Gly Cys
146          485          490          495
147 Gln Cys Asp Val Ser Val Glu Asp Leu Thr Pro Pro Leu Lys Thr Val
148          500          505          510
149 Ile Arg Ala Ile Arg Ile Met Lys Phe His Val Ala Lys Arg Lys Phe
150      515          520          525
151 Lys Glu Thr Leu Arg Pro Tyr Asp Val Lys Asp Val Ile Glu Gln Tyr
152      530          535          540
153 Ser Ala Gly His Leu Asp Met Leu Cys Arg Ile Lys Ser Leu Gln Thr
154 545          550          555          560
155 Arg Val Asp Gln Ile Leu Gly Lys Gly Gln Ile Thr Ser Asp Lys Lys
156          565          570          575
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160          595              600              605
161 Ser Lys Leu Asp Cys Leu Leu Asp Ile Tyr Gln Gln Val Leu Arg Lys
162     610              615              620
163 Gly Ser Ala Ser Ala Leu Ala Leu Ala Ser Phe Gln Ile Pro Pro Phe
164 625              630              635              640
165 Glu Cys Glu Gln Thr Ser Asp Tyr Gln Ser Pro Val Asp Ser Lys Asp
166              645              650              655
167 Leu Ser Gly Ser Ala Gln Asn Ser Gly Cys Leu Ser Arg Ser Thr Ser
168              660              665              670
169 Ala Asn Ile Ser Arg Gly Leu Gln Phe Ile Leu Thr Pro Asn Glu Phe
170          675              680              685
171 Ser Ala Gln Thr Phe Tyr Ala Leu Ser Pro Thr Met His Ser Gln Ala
172     690              695              700
173 Thr Gln Val Pro Ile Ser Gln Ser Asp Gly Ser Ala Val Ala Ala Thr
174 705              710              715              720
175 Asn Thr Ile Ala Asn Gln Ile Asn Thr Ala Pro Lys Pro Ala Ala Pro
176              725              730              735
177 Thr Thr Leu Gln Ile Pro Pro Pro Leu Pro Ala Ile Lys His Leu Pro
178          740              745              750
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186              805              810              815
187 Leu Gly Lys Ser Leu Ser Val Gln Asn Leu Ile Arg Ser Thr Glu Glu
188          820              825              830
189 Leu Asn Ile Gln Leu Ser Gly Ser Glu Ser Ser Gly Ser Arg Gly Ser
190          835              840              845
191 Gln Asp Phe Tyr Pro Lys Trp Arg Glu Ser Lys Leu Phe Ile Thr Asp
192     850              855              860
193 Glu Glu Val Gly Pro Glu Glu Thr Glu Thr Asp Thr Phe Asp Ala Ala
194 865              870              875              880
195 Pro Gln Pro Ala Arg Glu Ala Ala Phe Ala Ser Asp Ser Leu Arg Thr
196              885              890              895
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204 <212> TYPE: DNA
205 <213> ORGANISM: homo sapiens
207 <400> SEQUENCE: 3
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211 cgggccgggg cagggtgctg ctgaactcgg cagccgccag gggcgacggc ctgctactgc   240
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/825,147

DATE: 09/10/2001
TIME: 11:21:18

Input Set : A:\LEX-0160-USA SEQLIST.txt
Output Set: N:\CRF3\09102001\I825147.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application No
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date